RTCA SC-186, Subgroup: WG-4B (STP)

Note: This is a cumulative list - no removals are permitted.

CELL COLOR CODE:
Past Due
Due by next meeting/telecon
Due Date not set
Open Item
Closed Item

Number	Assigned	Description	Assignee	Due Date	Comment	Status
AI-1-01	2/2/2004	Research the AIR/AFS consensus opinion on the need for system independence between surveillance and navigation.	Paul Sanmarant	4/5/2004		OBE
AI-1-02	2/2/2004	Have administrative support develop spreadsheet that contains all requirements ("**shall"s**, "**should"s** and possibly "**will"s**) from ASA MASPS.	Jonathan Hammer	?		Closed
AI-1-03	2/2/2004	Draft a WG4 Issue Paper on the issue of independence between surveillance and navigation sources	Tom Foster	4/5/2004		Closed (WP-STP-2-05)
AI-1-04	2/2/2004	Confirm participation from Bob Saffell and ACSS	Tom Foster	4/5/2004		Closed
AI-1-05	2/2/2004	Attempt to solicit STP participation from UAT/WG5 folks and Airbus	Stuart Searight		STP Subgroup joining EURO Inter-op documentation efforts in June 2005	Closed
AI-1-06	2/2/2004	Availability and feasibility of Boeing providing WebX for meetings	Tony Warren	4/5/2004		Closed -- Listed OBE (Overcome By Events) in Meeting No. 5 Minutes
AI-1-07	2/2/2004	Set up email lists for the STP and possibly ASSAP and CDTI subgroups	Stuart Searight	4/5/2004		Closed
AI-1-08	2/2/2004	Make inquiries within Boeing on the characterization of non-GPS sources, especially from FMS systems	Tony Warren	4/5/2004		Closed (WP-STP-2-08)
AI-1-09	2/2/2004	Investigate GPS sensors that do not output integrity parameters and to see if sensors that do not output accuracy parameters (figures of merit) also needs to be addressed.	Joel Wichgers	4/5/2004	Delivered Issue Paper March 16, 2004	Closed (WP-STP-2-09)
AI-1-10	2/2/2004	Make logistical arrangements for first telecon (March 3, 2004 at 1 p.m. EST)	Stuart Searight	3/1/2004		Closed
AI-1-11	2/2/2004	Allocate the identified ASA MASPS requirements into the STP MOPS outline	Tom Foster	4/5/2004		Closed (WP-STP-1-02a)
AI-2-1	4/5/2004	Update WG4 Issue Paper to allow for capture of topic as ASA, or ASAS, and if ASAS, which subsystem(s) it pertains to.	Michael Petri	5/24/2004		Closed
AI-2-2	4/5/2004	Investigate if resources within Boeing or Rockwell Collins can be utilized to continue Tony's work on deriving accuracy and integrity for non-GPS avionics. (Paul Samanant will support efforts that pertain to Nav systems.)	Brook Assefa, Bob Saffell, Paul Samanant	5/24/2004		OBE (STP Meeting No. 5 @ Rosslyn)

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AI-2-4	4/5/2004	Ask SC159 for guidance on how to obtain a per hour undetected failure value for VPL which is now specified as a per landing event number. Also what if this is defined as a 10-6 value.	Joel Wichgers	5/24/2004	Addressed in AI-3-2 MS PowerPoint presentation	Closed
AI-3-1	5/25/2004	Generate first draft of the means by which we assess the error terms for NIC. Establish the criteria and guidelines as to when the assessment is needed.	Joel Wichgers	7/20/2004	Delivered MS PowerPoint presentation "Determining the Reported Containment Bound" on July 20,	Closed
AI-3-2	5/25/2004?	Ask FAA / SC-159 about scaling from SIS from 10-7 / hr. to 10-5 / hr.	Joel Wichgers	7/20/2004	Delivered MS PowerPoint presentation "Horizontal and Vertical Integrity Determination" on July 20, 2004	OBE (STP Meeting No. 5)
AI-3-3	5/25/2004?	Revise close approach analysis considering the benefit of scaling the HIL or HPL to 10-5 when the equipment integrity is only 10-5.	Stan Jones	7/20/2004	Delivered presentation on topic.	Closed
AI-3-4	5/25/2004?	Determine version number requirements for DO-260, DO-260A, and ICAO SARPs.	Don Walker	7/20/2004	Found DO 260A does have a version requirement. Need to have a revison table created and talked about in an issue paper.	Sent email to Jonathan Hammer on this before and after Seattle Interop Meeting
AI-4-1	7/20/2004	Draft an Issue Paper stating need for ASSAP requirement to treat all NIC and NAC values greater than 8 as equal to 8 from data received with version numbers indicating compliance with DO-260, DO- 260A, or DO-282.	Stuart Searight, Don Walker	11/1/2004		Closed (STP Meeting No. 5)
AI-4-2	7/20/2004	Summarize proposal #2 from his scaling of sensor integrity briefing in a manner which can be presented as a request for analysis support. (This will include background of topic, detailed proposal on how's and why's for scaling, and suggested validation work needed on the subject.)	Joel Wichgers	?	Not started … and probably OBE. Waiting for STP subgroup feedback before starting.	OBE
AI-4-3	7/22/2004	Update outline to reflect changes and writing assignments	Tom Foster	11/1/2004		Closed (STP Meeting No. 5)
AI-4-4	7/22/2004	Distribute Boeings RNP documents	Tom Foster	11/1/2004		Closed (STP Meeting No. 5)
AI-4-5	7/22/2004	Coordinate resources and set up a telecon with appropriate Boeing Nav guys regarding quality parameters of RNP GNSS systems	Tony Warren	11/1/2004		OBE
AI-4-6	7/22/2004	Author an Issue Paper proposing the vertical component is not needed for NIC = 9 or NAC = 9 (should only be included for values 10 and higher)	Tony Warren	11/1/2004		OBE
AI-4-7	7/22/2004	Write Issue Paper on both the ASA and ADS-B MASPS regarding need for some type of vertical reference point for higher integrity and accuracy levels	Joel Wichgers	11/1/2004	Draft issue paper completed and distributed to STP subgroup on 01/18/05. Awaiting feedback.	Closed and deferred to next verion of the STP MOPS
AI-4-8	7/22/2004	Submit "Velocity Lag Indicator" proposal as an ASA Issue Paper	Tony Warren	11/1/2004	Issue paper drafted and submitted	Closed

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AI-5-1	11/1/2004	Perform analysis to examine if minimum value of NACp and latency for TQL=2 is too loose and – if so – should they be tightened to provide needed data quality for DO-289.	Tony Warren	1/25/2005		OBE
AI-5-2	11/1/2004	Study position error sensitivity associated with maneuvers with respect to recommended error levels where position flags are set to invalid.	Tony Warren	1/25/2005	Presented briefing on the sensitivity study of NACp and NACv encoding that included STP error sources at Meeting No. 6	Closed
AI-5-3	11/1/2004	Study velocity error sensitivity with respect to a recommended error level where velocity flag is set to invalid.	Tony Warren	1/25/2005	Presented briefing on "Velocity Accuracy Metrics" at Meeting No. 7	Closed
AI-5-4	11/3/2004	Create a high-level figure showing the types of inputs and outputs for STP.	Stuart Searight	1/25/2005		OBE
AI-5-5	11/3/2004	Distribute RTCA template and describe that pasting existing material into the template must include "Paste Special" / "Paste as unformatted text".	Stuart Searight	1/25/2005		Closed
AI-6-1	1/25/2005	Provide data base (names, email addresses and tel#s) of WG4 and SGs to Nancee Pruett for setting up KSN	Mike Petri & Sheila Marian	3/29/2005	Contacted Nancee Pruitt and awaiting more from her to set	Closed
AI-6-2	1/25/2005	Draft or update STP MOPS sections (see STP outline with due dates)	Stu Searight, Joel Wichgers, Don Walker, Tony Warren, Chris Moody, J. Hammer, Bob Saffel, Chuck Manning, Stan Jones	3/29/2005	Draft sections provided at Meeting No. 7	Closed
AI-6-3	1/25/2005	Determine limiting NIC/NAC for this MOPS (upper bound of 7 proposed)	Stan Jones	3/29/2005	Stan delivered "Report Error and NACp Sensitivity to Latency" at Meeting No. 7.	Closed
AI-6-4	1/25/2005	Coordinate with Bob Saffel on State data source validity and Management of source data	Jonathan Hammer	3/29/2005		Closed
AI-6-5	1/25/2005	Write paper on options for handling NAC/NIC (pass thru, compensation, NIC/NAC limiting)	Chris Moody, Jonathan Hammer	3/29/2005		OBE
AI-6-6	1/25/2005	Draft response to AD Hoc question No. 1 (of Nov. 2004) about version numbering and indicate how this might salvage DO-260 equipment for radar-like services.	Don Walker	3/29/2005	This is an FAA/ flight standards issue. Mike Hampton to follow up.	Closed
AI-6-7	1/25/2005	Re-write Questions 2-4 of Nov 2004 Ad Hoc group letter and provide answers	Jonathan Hammer	3/29/2005		OBE
AI-6-8	1/25/2005	Perform alpha-beta filter analysis on vertical rate [Note: Jonathan has the lead, Joel to provide minor support answering questions on Collins equipment]	Jonathan Hammer, Joel Wichgers	6/7/2005	Jonathan Hammer and Chuck Manberg working on this w/ assist from Joel Wichgers	Closed. Draft sent to Chuck Manberg for review

Number	Assigned	Description	Assignee	Due Date	Comment	Status
AI-6-9	1/27/2005?	Close out a question about the determination of appropriate SIL levels for viable ADS-B equipment by covering this in his sections of the STP draft to the ASAS MOPS.	Chuck Manburg	3/29/2005?	Define (from an installer's standpoint) how to comply -- This is to be covered in the proposed AC.	Closed
AI-7-1	3/30/2005	Determine whether or not INS drift rate is a valid upper bound for velocity uncertainty accuracy	Tony Warren	6/7/2005		Closed
AI-7-2	3/30/2005	Amend the STP ASAS MOPS section "Determination of NACv Values" to include: "To determine NACv values for GPS equipment, refer to Section 2.2.3.2.6.1.5 (NACv Subfield in Airborne Velocity Message) of DO 260A."	Joel Wichgers	6/7/2005		Closed
AI-7-3	3/31/2005	Author an issue paper against DO-282 for it to become consistent with DO-260 regarding NACv	Jonathan Hammer	No Date Set	Issue paper complete. Slated for STP subgroup review at 05/26/05 telecon	Closed
AI-7-4	3/31/2005	Provide NACv values for the four Boeing aircraft that are RNP equipped.	Tony Warren	6/7/2005		Closed
AI-7-5	3/31/2005	Author an issue paper to two link MOPS (1090 ES and UAT) requesting (1) information contained in Section 2.2.3 (Establishing the Static Data used by STP) of those documents should be moved to the ASAS MOPS and (2) the link documents should be updated to reflect this change. Suggested wording until the transfer happens: "These requirements are currently specified in Link MOPS 'y' and 'z'.	Jonathan Hammer	No Date Set	Issue paper complete. Slated for STP subgroup review at 05/26/05 telecon	Closed
AI-7-6	3/31/2005	Deliver mature draft of Section 2.2.4 (State Data Processing)	Don Walker	6/7/2005	Delivered and distributed to STP subgroup 05/24/2005. Added to 05/26/2005 telecon agenda	Closed. Mature draft delivered prior to Seattle Interop Meeting.
AI-7-7	3/31/2005	Write STP outline section 2.2.4.8 (State Data Validity Determination)	Chuck Manberg	6/7/2005		Closed. Delivered mature draft at Seattle Interop Meeting
AI-7-8	3/31/2005	Investigate and report back to the subgroup what the requirements are for ADS-B certification.	Charles Sloan	6/7/2005		Open
AI-7-9	3/31/2005	Contact Chris Moody (MITRE/CAASD) to discuss validity requirements for UAT.	Chuck Manberg	6/7/2005		Closed
AI-7-10	3/31/2005	Contact Bob Saffle to discuss data source selection options	Chuck Manberg	6/7/2005		Closed
AI-7-11	3/31/2005	Contact Chris Moody to find out status of Section 2.2.7 (Transmit Information Requirements) and schedule a draft review of that material.	Jonathan Hammer	6/7/2005		Closed. Section reviewed during 6/29/05 telecon.
AI-7-12	3/31/2005	Create a draft outline for the Appendix	Tony Warren	6/7/2005		Closed. All members to review before the Sept 2005 meeting (See AI-T7-1)
AI-7-13	3/31/2005	Determine if "Vertical Altitude Rate Source" documentation needs to be included in the Appendix	Chuck Manberg	6/7/2005		Closed
AI-T5-1	4/27/2005	Create a distribution list to make sure everyone (the RFG Interop team and STP subgroup members) has access to everything the two sides have been working on.	Stuart Searight	6/7/2005		Closed

Number	Assigned	Description	Assignee	Due Date	Comment	Status
AI-T5-2	4/27/2005	Obtain a mature draft of the Operational Service and Environment Definition (OSED) document being produced by the RFG Application Definition (AD) team	Stuart Searight	6/7/2005		Closed
AI-T5-3	4/27/2005	Brief the STP subgroup on the AC draft outline at the next meeting.	Sheila Mariano	6/7/2005	NOTE: Although the original due date was set for 06/07/2005 at the 04/27/2005 telecon, an AC status update was requested by Jonathan Hammer for the 05/26/2005 telecon.	OBE
AI-T5-4	4/27/2005	Put together a list of items that Sheila Mariano might need to include in the proposed AC	All STP subgroup members	6/7/2005	NOTE: Since an AC status report has been added to the 05/26/2005 telecon agenda, STP subgroup members will be able to provide input at this time.	OBE
AI-T5-5	4/27/2005	Provide time at the June meeting to discuss AC items and Tony Warren's Action Item	Jonathan Hammer	6/7/2005		Closed
AI-T5-6	4/27/2005	Contact Stuart Searight about AI-5-4 and AI-5-5 and inquire about the establishment of a KSN website to harmonize STP / EUROCONTROL document sharing.	Bruce Paul	6/7/2005	Contacted via email.	Closed
AI-T5-7	4/27/2005	Add an additional agenda item to the next telecom: A discussion of whether or not to defer a proposed issue paper regarding AI-4-7 (Vertical SPRPs).	Bruce Paul	5/26/2005	Added to the 05/26/2005 telecon agenda.	Closed
AI-8-1	6/8/2005	Create a questionaire (What causes HPL to drop off?) with multiple questions TBD	Greg Dunstone	8/15/2005		Closed. Questionaire sent to Jonathan Hammer and forwarded to OEMs (ITEM MOVED TO STP / INTEROP AI LIST)
AI-8-2	6/8/2005	What equipment configurations are in the existing fleet of aircraft	OEM and Manufacturers	8/15/2005		Closed (Linked to AI-8-1) (ITEM MOVED TO STP / INTEROP AI LIST)
AI-8-3	6/8/2005	Take Greg Dunstone's analysis (switching from HPL to HFOM figures) back to the safety group to see if the OPA requirements can tightened up.	Jonathan Hammer	8/15/2005	Will attempt to quantify the risks associated with using HFOM	OBE (ITEM MOVED TO STP/INTEROP AI LIST)
AI-8-4	6/8/2005	Split the HFOM issue into sections for the Interop document main body and appendix	Konrad Koebe	8/15/2005		Closed (ITEM MOVED TO STP / INTEROP AI LIST)
AI-8-5	6/8/2005	Ask OPA to revisit availability requirements	Jonathan Hammer	8/15/2005	Ask OPA to do a reality check: are requirements achievable? Look into MASPS …requirements should be identical or less stringent	Closed (ITEM MOVED TO STP/INTEROP Action Item LIST)

Number	Assigned	Description	Assignee	Due Date	Comment	Status
AI-8-6	6/8/2005	Submit issue paper to RFG leadership requesting the establishment of a process (formal mechanism) to pass information back and forth between STP and Interop groups	Jonathan Hammer	8/15/2005		Closed. See Action Item AI-T6-9)
AI-8-7	6/8/2005	Meeting dates set: July 26-28 and September 20-22 at RTCA (Make sure meeting rooms available)	Jonathan Hammer	7/26/2005	Need to make sure a meeting room is available	Closed
AI-8-8	6/8/2005	Change "position report" to "position state" and "velocity report" to velocity state" in STP MOPS draft	Bruce Paul	7/26/2005		Closed
AI-8-9	6/8/2005	Write issue paper against ASAS MASPS section 3.81 (remove "flight ID" from status)	Bruce Paul	8/15/2005		Closed (See Action Item AI-T6-9)
AI-8-10	6/8/2005	Put "Fault Free" definition in the glossary appendix	Joel Wichgers	7/26/2005		Closed
AI-8-11	6/8/2005	Put "HEPUstp" (et al) definitions in the glossary appendix	Don Walker	7/26/2005		Open
AI-8-12	6/9/2005	Make sure FMS is putting out integrity accuracy values that correlate to make sure what goes into STP (specifically between EPU and 2 times RNP) provides a consistent method of providing integrity information	Bob Saffle	8/15/2005		Open
AI-8-13	6/9/2005	Change "GPS" to "GNSS" and "WAAS" to "SBAS" and "LAAS" to "GBAS" in STP MOPS draft	Bruce Paul	7/26/2005		Closed
AI-8-14	6/9/2005	Make sure that the words "or equivalent" are added to the "A" column in the tables in Joel's accuracy section	Bruce Paul	7/26/2005		Closed
AI-8-15	6/9/2005	Write an issue paper against DO-260 (Volume II) to have the "shalls" removed since the appendix is guidance material	Bruce Paul	8/15/2005		Closed. (See Action Item AI-T6-9)
AI-8-16	6/9/2005	Section rewrite to capture: "GPS is primary source …if GPS goes invalid, select FMS used to establish the aircraft profile …etc.)	Chuck Manberg	7/26/2005		Closed
AI-8-17	6/9/2005	Add this passage to the appropriate sections: "If the selected source is not valid the data will be marked as not available."	Chuck Manberg	7/26/2005		Closed
AI-8-18	6/9/2005	After Chuck Manberg makes changes to section 2.2.4.8.9.4 pass it to Tony Warren for review/comment	Jonathan Hammer	8/15/2005		Closed
AI-T6-1	6/29/2005	Add an agenda item to the July meeting -- time to review Ken Carpenter's scripts papers about Geometric Altitude (regarding separation provision and collision-avoidance requirements)	Jonnathan Hammer	7/26/2005		Open -- Postponed to September 2005 meeting
AI-T6-2	6/29/2005	Maintain and distribute master copies of all documents from this point forward	Bruce Paul	Indefinite		Open
AI-T6-3	6/29/2005	Reset numbering scheme for STP MOPS and forward to Bruce	Joel Wichgers	7/5/2005		Closed
AI-T6-4	6/29/2005	Provide updates to assigned sections prior to the July meeting	Stuart Searight	7/26/2005		Closed
AI-T6-5	6/29/2005	Send out master copy of STP draft with all changes accepted	Joel Wichgers, Bruce Paul	7/5/2005		Closed
AI-T6-6	6/29/2005	Contact Tom Mosher, Chris Moody (and others) to find out how exactly the bits get set in Capstone avionics for UAT and 1090	Stuart Searight	7/26/2005		Closed
AI-T6-7	6/29/2005	Go through section 2.2.5 and make changes to "Shalls" and add (Rx-x)	Bruce Paul	7/26/2005		Closed
AI-T6-8	6/29/2005	Add a note in the STP draft section 2.2.5 that states "Even though DO-242 uses the term "Ident" and DO-260A uses the term "SPI" the two words a considered synonymous in this document.	Bruce Paul	7/26/2005		Closed
AI-T6-9	6/29/2005	Make a running list of issues with other documents (e.g. -- DO-260, DO-242, ASA MASPS) to be ready to write a series of Issue Papers in the future.	Bruce Paul	7/26/2005		Closed
AI-T6-10	6/29/2005	Add a new sub-section to the Crew Input Section (2.2.5) that identifies validity and lifetime requirements	Chris Moody	7/26/2005		OBE
AI-T6-11	6/29/2005	Add a new sub-section for static data in the Crew Input Section (2.2.5) and move the address data selection material into this new static sub-section	Chris Moody	7/26/2005		OBE
AI-T6-12	6/29/2005	Consolidate all "pass throughs" into a pass-through sub-section of the Crew Input Section (2.2.5)	Chris Moody	7/26/2005		OBE

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AI-T6-13	6/29/2005	Update the "State Data Processing" sections to reference the state data table in Section 2.2.6	Chuck Manberg	7/26/2005		OBE
AI-T6-14	6/29/2005	Change references about FMS that are RNP / ANP to terms that are more generic	Chuck Manberg	7/26/2005		Closed
AI-T6-15	6/29/2005	Add time at the next meeting to include a discussion of velocity sources and corresponding factors	Jonathan Hammer	7/26/2005		Closed
AI-9-1	7/28/2005	Update the STP ASAS MOPS draft to incorporate all changes made during the meeting.	Bruce Paul	8/31/2005		Closed
AI-9-2	7/28/2005	Remove words (such as "will") that do not belong in the MOPS draft.	Bruce Paul	8/31/2005		Closed
AI-9-3	7/28/2005	Create a separate AI list for Interop members.	Bruce Paul	8/31/2005		Closed
AI-9-4	7/28/2005	Distribute a copy of TSO 166A to the SG.	Bruce Paul	8/31/2005		Closed
AI-9-5	7/28/2005	Contact the FAA and attempt to have it re-evaluate AC priority	Jonathan Hammer	9/20/2005		Closed
AI-9-6	7/28/2005	Assist Chris Moody/Chuck Manberg write specific requirements for proposed ADB-S AC.	Jonathan Hammer	9/20/2005		Open
AI-9-7	7/28/2005	Poll vendors and other shareholders regarding the need for an ADS-B On/Off/Standby switch.	Shelia Mariano	9/20/2005		Open
AI-9-8	7/28/2005	Change the "Status Data Latency Assessment" definition since, as is, it can't be tested and conflicts with ICAO requirements.	Don Walker	8/31/2005		Open
AI-9-9	7/28/2005	Create tables for non-precision position extrapolation requirements.	Don Walker	8/31/2005		Open
AI-9-10	7/28/2005	Evaluate the numbers that go into the tables that set non-precision position extrapolation requirements.	Stan Jones	9/20/2005		Open
AI-9-11	7/28/2005	Investigate the creation of a diagram that depicts data inputs and selection (which includes NIC computation used for switching)	Chuck Manberg	8/31/2005		Open
AI-9-12	7/28/2005	Create a source selection section for the proposed FAA AC.	Chuck Manberg	9/20/2005		Open
AI-9-13	7/28/2005	Develop material for the proposed FAA AC pertaining to FMS data requirements.	Tony Warren	9/20/2005		Open but on hold until after the Sept. 2005 meeting
AI-9-14	7/28/2005	Revise table dealing with HEVUstp and VEVUstp to make it a table lookup (with input from Tony Warren).	Joel Wichgers	8/31/2005		Open
AI-T7-1	8/31/2005	Review Tony Warren's Appendix layout and provide feedback by the September 20-22 meeting	All STP SG Members	9/20/2005		Open
AI-T7-2	8/31/2005	Redistribute the latest Appendix (dated August 5) and make sure Bob Saffell and Don Walker know about the revised delivery dates	Jonathan Hammer	9/20/2005		Open
AI-T7-3	8/31/2005	Revise sections for insertion into the STP MOPS draft by COB September 8	Joel Wichgers	9/8/2005		Open
AI-T7-4	8/31/2005	Complete revisions and deliver them to Bruce Paul prior to COB September 8	Chuck Manberg	9/8/2005		Open
AI-T7-5	8/31/2005	Add time for a discussion of next generation ADS-B strategy at the next meeting agenda and arrange for Brook Assefa (Boeing) to call in if he isn't available to make the presentation	Jonathan Hammer	9/20/2005		Open